

## 03050203-040

(*North Fork Edisto River*)

### General Description

Watershed 03050203-040 is located in Lexington, Aiken, and Orangeburg Counties and consists primarily of the *North Fork Edisto River* and its tributaries from Black Creek to Bull Swamp Creek. The watershed occupies 115,489 acres of the Sandhills and Upper Coastal Plain regions of South Carolina. The predominant soil types consist of an association of the Fuquay-Dothan-Vaughn-Lakeland-Troup series. The erodibility of the soil (K) averages 0.13 and the slope of the terrain averages 5%, with a range of 0-25%. Land use/land cover in the watershed includes: 50.9% forested land, 32.8% agricultural land, 7.9% forested wetland (swamp), 6.0% barren land, 1.7% urban land, 0.5% water, and 0.2% nonforested wetland (marsh).

This section of the North Fork Edisto River accepts drainage from Cedar Creek (Lynch Branch, Rast Pond, Fort Pond, Thrasher Branch, Crawford Branch), Jackson Branch, Hollow Creek (Ritter Branch, Little Hollow Creek), Pond Branch (Hunter Branch), Salem Creek, Penn Branch, and Big Beaver Creek (Little Beaver Creek). Further downstream, Turkey Branch (Gibson Branch, Hutto Mill Pond) enters the river. There are a total of 115.7 stream miles and 545.7 acres of lake waters in this watershed, all classified FW. As a reach of the North Fork Edisto River, this watershed accepts the drainage of all streams entering the river upstream of the watershed.

### Surface Water Quality

| <u>Station #</u> | <u>Type</u> | <u>Class</u> | <u>Description</u>                                  |
|------------------|-------------|--------------|---|
| E-092            | P/W         | FW           | NORTH FORK EDISTO RIVER AT SC 3, 5.5 MI NW OF NORTH |
| E-104            | W/INT       | FW           | NORTH FORK EDISTO RIVER AT S-38-73                  |

*North Fork Edisto River* – There are two SCDHEC monitoring sites along this section of the North Fork Edisto River. This is a blackwater system, characterized by naturally low pH and dissolved oxygen concentrations. Although pH excursions were noted at both sites, they were typical of values seen in such systems and considered natural, not standards violations. At the upstream site (*E-092*), aquatic life uses are fully supported. P,P'DDE (a metabolite of DDT) was detected in the 1997 and 1998 sediment samples. Although the use of DDT was banned in 1973, it is very persistent in the environment. Significant increasing trends in dissolved oxygen concentration and decreasing trends in five-day biochemical oxygen demand suggest improving conditions for these parameters. Recreational uses are fully supported; however, there is a significant increasing trend in fecal coliform bacteria concentration. Aquatic life and recreational uses are fully supported at the downstream site (*E-104*).

*A fish consumption advisory has been issued by the Department for mercury and includes portions of streams within this watershed (see advisory p.38).*

## Groundwater Quality

| <u>Well #</u> | <u>Class</u> | <u>Aquifer</u> | <u>Location</u> |
|---------------|--------------|----------------|-----------------|
| AMB-104       | GB           | TERTIARY SANDS | NORTH           |

## NPDES Program

### *Active NPDES Facilities*

#### *RECEIVING STREAM*

#### *FACILITY NAME*

#### *PERMITTED FLOW @ PIPE (MGD)*

NORTH FORK EDISTO RIVER

TOWN OF NORTH

PIPE #:001 FLOW: M/R

PIPE #:002 FLOW: 0.2/0.3

#### *NPDES#*

#### *TYPE*

#### *COMMENT*

SC0047821

MINOR DOMESTIC

SPRAYFIELD

## Nonpoint Source Management Program

### *Land Disposal Activities*

#### **Land Application Sites**

#### *LAND APPLICATION SYSTEM*

#### *FACILITY NAME*

SPRAY IRRIGATION

PELION ELEM. SCHOOL

SEPTAGE INJECTION

CE TAYLOR PUMPING, INC.

#### *ND#*

#### *TYPE*

ND0013561

DOMESTIC

ND0070149

DOMESTIC

## Growth Potential

There is a low potential for growth in this watershed, which contains the Towns of Pelion, North, and Livingston and portions of the Towns of Woodford and Neeses. There is a small industrial park north of the Town of Pelion that may attract future industrial prospects, but there is currently no industry in the watershed. S.C. Highway 302 and a rail line pass through the area.